

# EUROPEAN PATENT OFFICE

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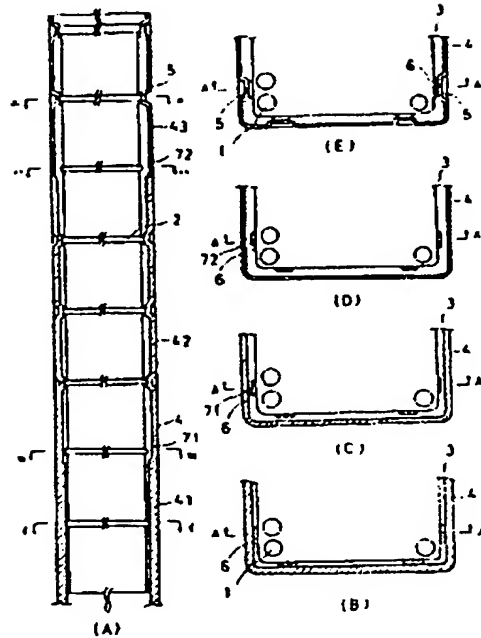
APPLICATION DATE : 29-11-88  
APPLICATION NUMBER : 63299565

APPLICANT : TOSHIBA CORP;

INVENTOR : UEDA KIYOSHI;

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TITLE : FUEL ASSEMBLY FOR BOILING  
WATER REACTOR



ABSTRACT : PURPOSE: To improve stability to fluid vibration by forming fuel spacer abutting parts at channel box thin-thickness parts.

CONSTITUTION: Channel abutting parts 6 are formed on both sides of the outer peripheral part of fuel spacers 2, which are all in the same structure; and the internal surfaces 41, 42, and 43 of channel box 4 decrease in thickness toward the downstream side of a cooling material. Here, the thin internal surfaces 42 and 43 are dimpled to form the spacer abutting parts 5 and a fuel bundle 3 is supported from inside. No spacer abutting part 5, however, is provided at a position next to where the thick part becomes the thin part, and gaps 71 and 72 are formed between the channel box 4 and spacers 2 as shown in figures (C) and (D). Consequently, the bundle is prevented from vibrating owing to a cooling water flow and vibrating laterally owing to an earthquake, thereby improving the mechanical soundness.

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